



# IJ PUP

## **INTEGRAL JOINT SOLID VANE CENTRALIZER**



- **Designed for Close Tolerance Applications**
- **High By-Pass Area Helps ECDs**
- **Provides Positive Standoff Where Other Centralization Cannot be Used**
- **Helps Prevent Differential Sticking**
- **Built to be Integral Part of Casing String**
- **Strongest Centralizer Available**
- **Available in a Variety of Lengths and Sizes**

As wells get more challenging, tubular placement and cementation is becoming increasingly difficult. Pressure transitions dictate placing multiple strings of casing. Additional strings of casing result in tight annular spaces. These CLOSE TOLERANCES pose special centralization including reduced bypass areas and ineffective hole cleaning. This situation is further compounded by deviated and high angle wellbores. Successful cementing of these DRILLING AND PRODUCTION LINERS is imperative. The IJ PUP, an integral joint solid vane pup, is the solution.

Solid body and bow spring centralizers are impractical for close tolerance applications. These external centralizers may fail and casing can become stuck when running through SIDETRACKS or SEVERE DEVIATIONS. Unlike external centralizers, the IJ PUP is an integral part of the casing string. The IJ PUP is as strong as the casing itself as it is manufactured to the proper weight, grade and thread. The IJ PUP provides positive standoff with a maximum bypass area which results in easier casing runs, good hole cleaning and better primary cement jobs. For close tolerance conditions, the IJ PUP should be your centralizer of choice.

# IJ PUP

## INTEGRAL JOINT CENTRALIZER

STANDARD LENGTH IS 18" (OTHERS AVAILABLE)

CASING SIZE "	BLADE O.D. "
3 1/2	4
4 1/2	5 3/4
5	5 3/4
5	6
5	6 3/8
5 1/2	6 1/4
5 1/2	6 3/8
5 1/2	6 5/8
7	8 3/8
7 5/8	8 3/8
9 5/8	10 1/2
9 7/8	11 7/8
11 3/4	14
11 7/8	12 1/4
16	18 1/4

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**THE IJ PUP  
IS CUSTOM BUILT  
TO SPECIFICATIONS  
AND NOT TYPICALLY  
A STOCK ITEM**

Please call for availability

### All Sizes Available in 18", 25" or 30"/36"

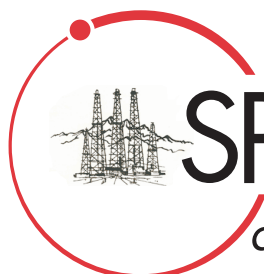
**18"** Box X Pin Threads  
9" Blade Length  
No Tong Area

**25"** Box X Pin Threads  
16" Blade Length  
Recut to same weight or lighter  
with similar Box X Pin Threads  
Recuts, as above, Result in 9"

**30/36"**

Box X Pin Threads  
16" Blade Length  
Tong Area  
Recut to same weight or lighter

OTHER SIZES AVAILABLE



# SPIDLE TURBECO

*a Flotek company*